Figure 1A   (DNA146649)

AAAAGAGGATAATTCAAGAAGGGCTTCTTTAAGGGACTATTTCCCAAGATGGGAATGGAGGGGAACCT
GCAGGGCTAGTGTCCTACCCTCCAGCAGGCAGCAGCTAATTCCTGAGGGGATAAGGACGTGGTTGCGA
GGACATGGAGGGAAAGTTCTACAGAGGAGGCACAGTGGGCTTCAGGAACACCCTGCTTGAGAGGCCTG
TGAGAGGTGGGGAATCAATACCTGACCTCGCTCTCCTTCCATCTCTCCCCAACCCACAGGGGTTGGTG
TGGGCCCCACAGGCGAGCCTCCCGGGGAGAGAAGTGGAGAGAGGACCTGGAGGGCCAGTAGAAGGTAT
GCACACAAGTATCTACAAGGCACCAGGCATTTTTTGAGCATTTGGGATTTGTCAGCAAACAAGTCAGA
CAAAAAACCTTGCTCTGGTGGAGGGAACATTCTAGCAAAGGAAGGCAAATGACAAGCAGGAGAAGTAT
TTGCTAAGA**ATG**GCAATCCTGACGCTCAGCCTTCAACTCATCTTGTTATTAATACCATCAATATCCCA
TGAGGCTCATAAAACGAGTCTTTCTTCTTGGAAACATGACCAAGATTGGGCAAACGTCTCCAACATGA
CGCGTAACCTCAGCAGGCCTAACTCTGCAGGACCTTCAGCTATGGTGTAATTTGAGAATCATTCAC**TG**
AGCATCAACTATGTAACCAGCATTGGGTTGGGTGCCAGAGATCCAAAGCTAAGACACCAAAACCTGCT
GGAGTGGGTGCTGGGCTGAGGAACCAGAGGTAATGGCCCTGGGGACGCCCGGGAAGAGATGAGTTTTG
AGGCAAAGGGATTTGCATTTGTGGATGAACTTGTGTGTTCAGCTGAAGGCTGAAGTTGTAACTCTGAA
CCACAGGACAAAGCATGATGTGATGTCTTCCTCACTAAATGGCAATGTCCTTGAGAAGACCCTGTCTT
AATCATCTCTGTGTCTCACGCCTGGCTCATAACATATGCTTATCGCATGCTTTTAATAAAAGGAGGAA
AATGC

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GGTGGAGCCAAATAAGGGAATGAAAGCAGGCCACCGGAGCCTCGGAGAGGCAACCGTTTGGGGTACTC
TTCCACACTGTGGCAGCTTTGTTCTTTTGCTCTTTGCAGTAAGTTTTGCTGTTGCTTACTCTTTGGGT
CTGCACTGCCTTTATGAACTGTAACACTGACCATGGAGGTCTGCAGCTTCACTCCTCAAGCCAGCAAG
ACCAGGAGCCCACTGGGAGGAGGAATGAACAACTCTGGACACGCCACCCTTAAGAGCTGTAACACTCA
CCGCGACGGTCTGCAGCTTCACTCCTGAAGTCAGCGAGACCACAAACCCACCAGAAGGAAGAAAATCC
GGACACATCTGAACATCTGAGGGAACTCCGCACACACCATCTTTAAGAACTGTAACACTCACCACGAG
GGCCCGTGGCTTCATTCTTGAAGTCAGCAAGACCAAGAACCCACCAATTCTGGACACAACAGGACACA
CACATGGGAGGGGGAGGCCAGAGGGAAACCTAGCTGGCTTGGGGTGGGAATTTGAATCCCTGAGCCCA
TCTTCTTCTTTCACCACTTTGTCCGGTGACATTAGGACCAACCAACCAATGCCATTATATTTCTTAGT
TTACAAGAAAATGTTTGAAGTTCTCATCCACAGAATCACTTAGCTTCTTGCTTTTTACAAGTGGTTGA
TTAGGAGTATTCAATACAGATTTTGTGTATCACTATAAACAGTTCACAGCATGGACTACTGGTGTTCT
CTTTACTAACTGAAATGGTGTCATTAGCACCTTTAAATCTAATCCATTTAGAGAGCCAGTTCCGGAAA
CCTCAGAACCAGTTTGGAAAACTTCCGTTCTTCTGAAGCCATTTTTGGAACCACATCTGTGCTAGGTT
CTCCAGGGAAACAGAACCAATATGTTTTATTTACTATGGGGACTGGCTCATATGATTCTGGAGGCCTA
GAAGTCCCTCCCTCTCAAGATGTGCTGTCAGCAAGCTGCAGAACCAGGAAAGCTGGTGGTGTCAGAGT
CTGAAGGCCTGAGAACTGGGTGGGGAGTGGGACAGACTAAGGGGCCTTTAGTCTCTGGGTTGGTGTGG
TCCCCACAGGTGAGCCTTTCGTGGAGAAGGGTGGAGAGGGGATCTGGAAGGGCCAATAGAAGATACTC
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CCTCCAGCAGGCAGCAGCTAATTCCTGAGGGGATAAGGACGTGGTTGCGAGGACATGGAGGGAAAGTT
CTACAGAGGAGGCACAGTGGGCTTCAGGAACACCCTGCTTGAGAGGCCTGTGAGAGGGATTGTTTTCT
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TTCCTGCACTCTCAGCAATGGGATGGGCTGACTGATGCCCTGTGGGCTGGAAAGCTGACCACAGTTGC
TGCAGACCAGACCCCCTCACATAGTGAGTGCTGGGCTGAGGAATCCAGGAGAGCCCGAGGGGGGACAC
TGAAGGTGTATCGTTGGCCCTGCCAGCTGCAAGTGAACTGCTTCTGATGAATTTTAATAGGGAGAAAG
AAGTATTTGCTAAGAATGGCAATCCTGATGCTCAGCCTTCAACTCATCTTGTTATTAATACCATCAAT
ATCCCATGAGGCTCATAAAACGAGTCTTTCTTCTTGGAAACATGACCAAGATTGGGCAAACGTCTCCA
ACATGACTTTCAGCAACGGAAAACTAAGAGTCAAAGGCATTTATTACCGGAATGCCGACATTTGCTCT
CGACATCGCGTAACCTCAGCAGGCCTAACTCTGCAGGACCTTCAGCTATGGTGTAATTTGAGGTCAGT
GGCCAGAGGACAGATCCCGTCTACATTATGAGTGAAGCGGAGAGCTACTGCAGGGTTCTGAGCAGAGT
CCTAATTTATATTTTAGAAGAATCATCATGGCTCCTAGATTAGGAATAAAACGAAGGGGCCCAGGGAT
GGAAACGATGAGTCCAGTTGGGTTACTGCAAAGATCCAGGCCAGAAATCCAGGCACACAGTGGCACACAC
CTGAGTCCCAGATAATTCCACCTACTGGTCCTGCTCTGTGGCCTACTGGTCCGAGTCCAGCCCCGACT
GGCAGTTCCTAGGATAAACTAGTCGCTTTATC
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DNA149995

AAAAAATACAGCAGGTGAAGGAGGTTGGAGAGTAGGGGGTGGAGGGCCCACGCAGCACTTGTCCTTCA
CCCTGGAGGGGATCTGTTACATGCCCCAGATTGCTGGTCCCCTAGAAATGTTACTGAGGCAGCCTCTG
CATTTTTGCAGGGATTGTTTTCTACTGTTTGACATTCACGTAACCTCCTAACGCTGTCTGGGGAAGAT
GCTACCCCCTGCTCTCCCCGTCTTTCCTGCACTCTCAGCAATGGGATGGGCTGACTGATGCCCTGTGG
GCTGGAAAGCTGACCACAGTTGCTGCAGACCAGACCCCCTCACATAGTGAGTGCTGGGCTGAGGAATC
CAGGAGAGCCCGAGGGGGGACACTGAAGGTGTATCGTTGGCCCTGCCAGCTGCAAGTGAACTGCTTCT
GATGAATTTTAATAGGGAGAAAGAAGTATTTGCTAAGA**ATG**GCAATCCTGACGCTCAGCCTTCAACTC
ATCTTGTTATTAATACCATCAATATCCCATGAGGCTCATAAAACGAGTCTTTCTTCTTGGAAACATGA
CCAAGATTGGGCAAACGTCTCCAACATGACTTTCAGCAACGGAAAACTAAGAGTCAAAGGCATTTATT
ACCGGAATGCCGACATTTGCTCTCGACATCGCGTAACCTCAGCAGGCCTAACTCTGCAGGACCTTCAG
CTATGGTGTAATTTGAGGTCAGTGGCCAGAGGACAGATCCCGTCTACATTA**TGA**GTGAAGCGGAGAGC
TACTGCAGGGTTCTGAGCAGAGTCCTAATTTATATTTTAGAAGAATCATCATGGCTCCTAGATTAGGA
ATAAAACGAAGGGGCCCAGGGATGGAAACGATGAGTCCAGTTGGGTTACTGCAAAGATCCAGGCCAGA
AATCCAGGCACAGTGGCACACACCTGAGTCCCAGATAATTCCACCTACTGGTCCTGCTCTGTGGCCTA
CTGGTCCGAGTCCAGCCCCGACTGATTTCTGGGCCTGTAATGTCTAAAAACGCTCCCTGCTGATGTTT
TGCAAGTGACTGTGTTACTTGAAGGCAGTTCCTAGGATAAACTAGTCGCTTTATCATTACAGAATCAT
TCACTGAGCATCAACTATGTAACCAGCATTGGGTTGGGTGCCAGAGATCCAAAGCTAAGACACCAAAA
CCTGCTCTCCAGGAAACGAGAGGCTGAGAA

MAILTLSLQLILLLIPSISHEAHKTSLSSWKHDQDWANVSNMTFSNGKLRVKGIYYRNAD
ICSRHRVTSAGLTLQDLQLWCNLRIIH

Domain Information

Signal peptide:
     1-19

N-glycosylation site.
     38-42
     41-45

MAILMLSLQLILLLIPSISHEAHKTSLSSWKHDQDWANVSNMTFSNGKLRVKGIYYRNAD
ICSRHRVTSAGLTLQDLQLWCNLRSVARGQIPST   .

Domain Information

Signal peptide:
     1-19

N-glycosylation site.
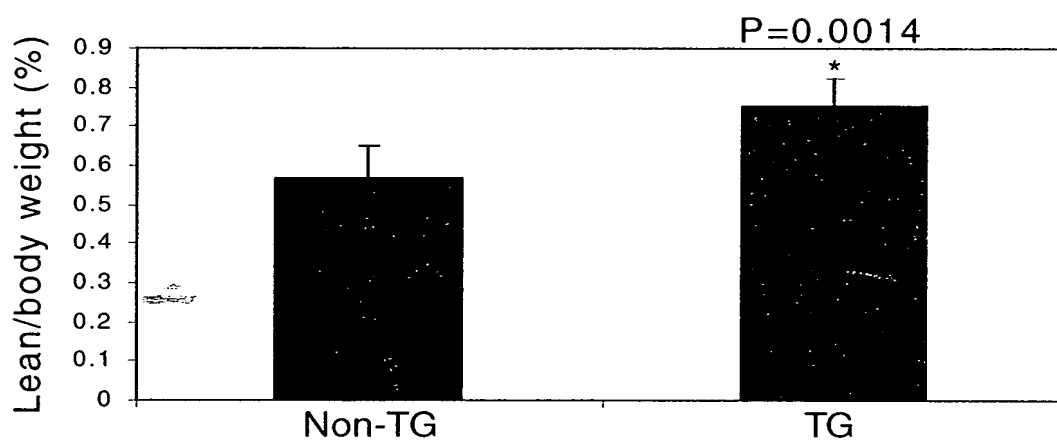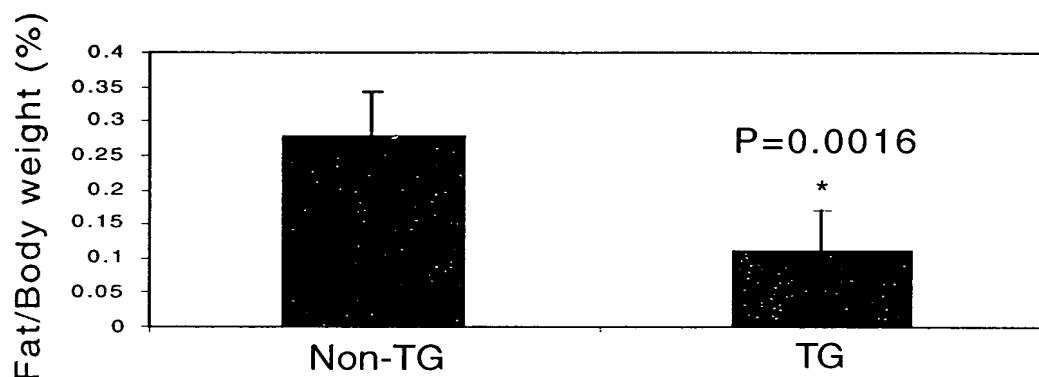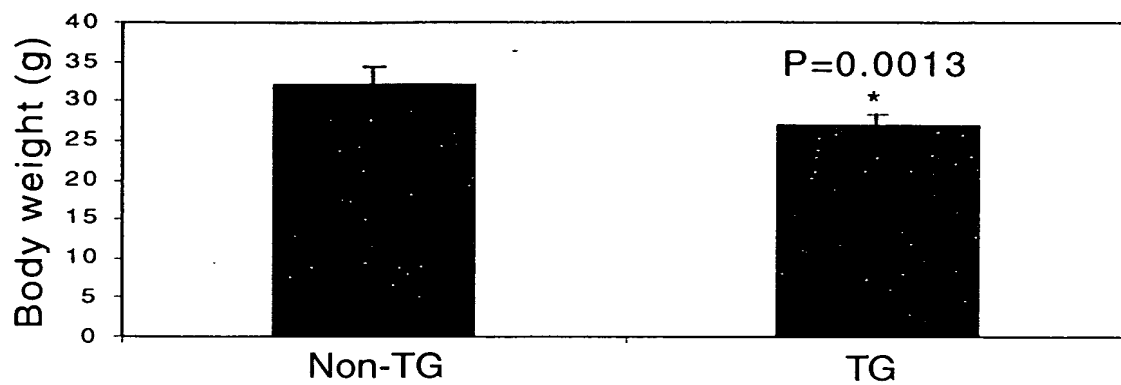   38-42
     41-45
N-myristoylation site.
     89-95

MAILTLSLQLILLLIPSISHEAHKTSLSSWKHDQDWANVSNMTFSNGKLRVKGIYYRNAD
ICSRHRVTSAGLTLQDLQLWCNLRSVARGQIPSTL

Domain Information

Signal peptide:
    1-19

N-glycosylation sites
    38-42
    41-45

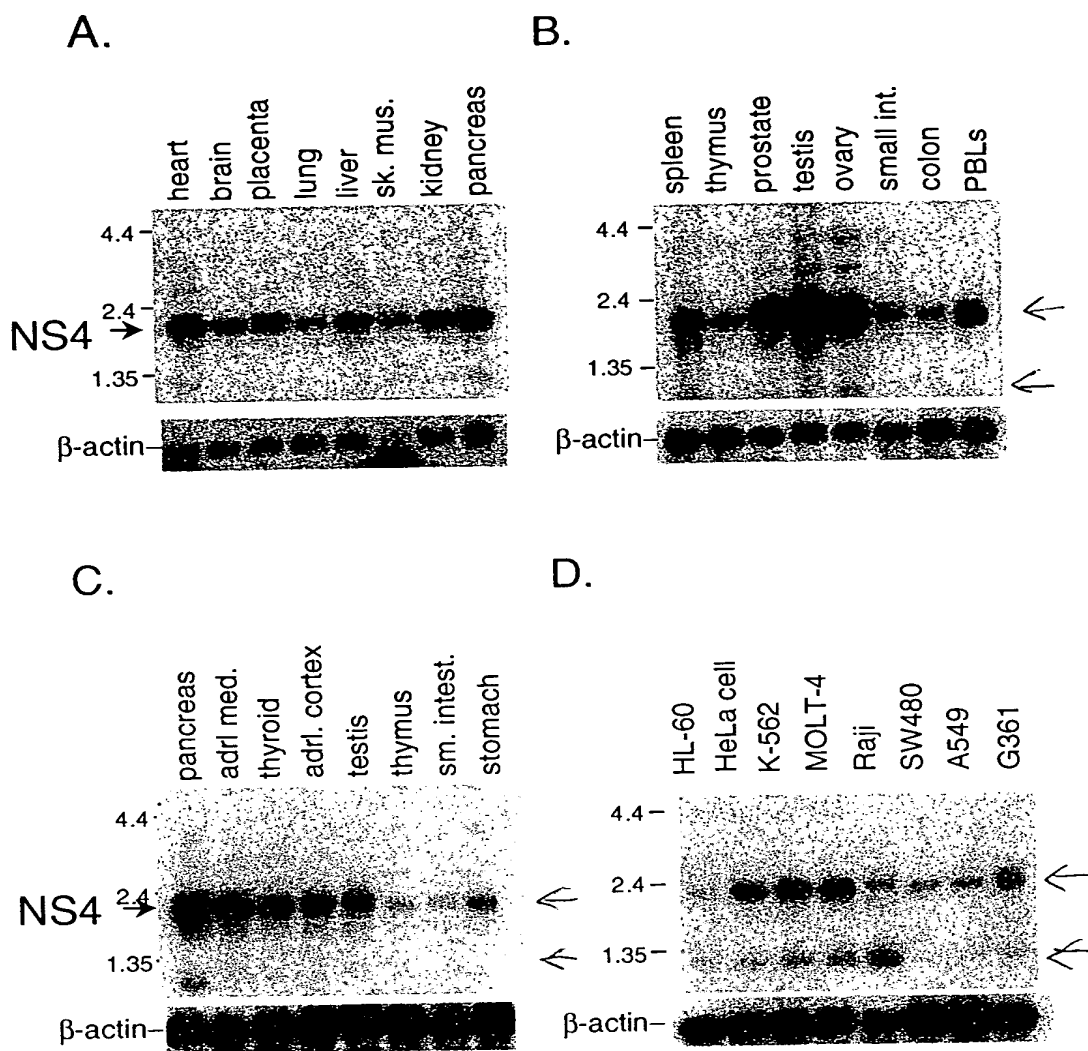N-myristoylation sites
    89-95

FIG. 3

Figure 4

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DNA146649    1 MAILTLSLQLILLLIPSISHEAHKTSLSSWKHDQDWANVSNMTFSNGKLR
DNA149986    1 MAILMLSLQLILLLIPSISHEAHKTSLSSWKHDQDWANVSNMTFSNGKLR
DNA149995    1 MAILTLSLQLILLLIPSISHEAHKTSLSSWKHDQDWANVSNMTFSNGKLR


DNA146649   51 VKGIYYRNADICSRHRVTSAGLTLQDLQLWCNLRIIH--------
DNA149986   51 VKGIYYRNADICSRHRVTSAGLTLQDLQLWCNLRSVARGQIPSTL
DNA149995   51 VKGIYYRNADICSRHRVTSAGLTLQDLQLWCNLRSVARGQIPSTL
```

A.

heart, brain, placenta, lung, liver, sk. mus., kidney, pancreas

4.4 –
NS4 → 2.4
1.35 –

β-actin

B.

spleen, thymus, prostate, testis, ovary, small int., colon, PBLs

4.4 –
2.4
1.35 –

β-actin

C.

pancreas, adrl med., thyroid, adrl. cortex, testis, thymus, sm. intest., stomach

4.4 –
NS4 → 2.4
1.35 –

β-actin

D.

HL-60, HeLa cell, K-562, MOLT-4, Raji, SW480, A549, G361

4.4 –
2.4 –
1.35 –

β-actin –

FIG. 5